

## CLAIMS

What is claimed is:

1. A silver-colored, tarnish-resistant, corrosion-resistant alloy consisting essentially of:  
92.5 to 95% by weight silver, the balance of which is an alloy comprised of:  
approximately 29.75%  $\pm$  5% by weight zinc;  
approximately 62.15%  $\pm$  5% by weight copper;  
approximately 1.35% +5%; -0.85% by weight silicon; and  
approximately 6.75% +1.25%, -6.75% by weight tin.
2. A silver-colored, tarnish-resistant, corrosion-resistant alloy consisting essentially of:  
92.5 to 95% by weight silver, the balance of which is an alloy comprised of:  
approximately 24.0%  $\pm$  5% by weight zinc;  
approximately 74.8%  $\pm$  5% by weight copper; and  
approximately 1.2%  $\pm$  5% by weight silicon.
3. A silver-colored, tarnish-resistant, corrosion-resistant alloy consisting essentially of:  
92.5 to 95% by weight silver, the balance of which is an alloy comprised of:  
approximately 32.60%  $\pm$  5% by weight zinc;  
approximately 64.70%  $\pm$  5% by weight copper;  
approximately 0.60%  $\pm$  5% by weight silicon;  
approximately 0.90%  $\pm$  5% by weight tin; and  
approximately 1.20%  $\pm$  5% by weight indium.
4. A silver-colored, tarnish-resistant, corrosion-resistant alloy consisting essentially of:  
92.5 to 95% by weight silver, the balance of which is an alloy comprised of:  
approximately 29.75% by weight zinc;  
approximately 62.15% by weight copper;  
approximately 1.35% by weight silicon; and  
approximately 6.75% by weight tin.

5. A silver-colored, tarnish-resistant, corrosion-resistant jewelry consisting essentially of:  
92.5 to 95% by weight silver, the balance of which is an alloy comprised of:  
approximately 24.0% by weight zinc;  
approximately 74.8% by weight copper; and  
approximately 1.2% by weight silicon.
6. A silver-colored, tarnish-resistant, corrosion-resistant jewelry consisting essentially of:  
92.5 to 95% by weight silver, the balance of which is an alloy comprised of:  
approximately 32.6% by weight zinc;  
approximately 64.7% by weight copper;  
approximately 0.6% by weight silicon;  
approximately 0.9% by weight tin, and  
approximately 1.2% by weight indium.
7. A silver-colored, tarnish-resistant, corrosion-resistant jewelry consisting essentially of:  
92.5 to 95% by weight silver, the balance of which is an alloy comprised of:  
29.75 % by weight zinc;  
62.15% by weight copper;  
1.35% by weight silicon; and  
6.75% by weight tin.
8. A silver-colored, tarnish-resistant, corrosion-resistant jewelry consisting essentially of:  
92.5 to 95% by weight silver, the balance of which is an alloy comprised of:  
32.60 % by weight zinc;  
64.70% by weight copper;  
0.60% by weight silicon;  
0.90% by weight tin; and  
1.20% by weight indium.

9. A tarnish-resistance, corrosion-resistance-improving alloy consisting essentially of:
  - 24.0% by weight zinc;
  - 74.8% by weight copper; and
  - 1.2% by weight silicon.
10. A tarnish-resistance, corrosion-resistance-improving alloy consisting essentially of:
  - 29.75% by weight zinc;
  - 62.15% by weight copper;
  - 1.35% by weight silicon; and
  - 6.75% by weight tin.
11. A tarnish-resistance, corrosion-resistance-improving alloy consisting essentially of:
  - 32.60% by weight zinc;
  - 64.70% by weight copper;
  - 0.60% by weight silicon;
  - 0.90% by weight tin; and
  - 1.20% by weight indium.
12. A tarnish-resistance, corrosion-resistance-improving alloy consisting essentially of:
  - 24.0% by weight zinc;
  - 74.8% by weight copper;
  - 1.2% by weight silicon;
  - 0.0% tin; and
  - 0.0 % indium.
13. A tarnish-resistance, corrosion-resistance-improving alloy consisting essentially of:
  - 29.75% by weight zinc;
  - 62.15% by weight copper;
  - 1.35% by weight silicon;
  - 6.75% by weight tin; and
  - 0.0% indium.

14. A method of making a tarnish-resistant, corrosion-resistant silver-colored alloy comprised of the steps of:

depositing a first amount of silver in a crucible;

adding a second amount of Sterilite alloy to the crucible;

heating the silver and Sterilite in the crucible;

mixing the silver and Sterilite between the temperatures of approximately 875°C (1605°F) and 1010°C (1850°F);

holding the temperature of the mixed silver and Sterilite at a temperature of 1010°C (1850°F) for 30 seconds;

cooling the mixture to approximately 850°C (1562°F);

re-heating the mixture to approximately 980°C (1796°F); and

pouring the molten mixture into a mold.

15. The method of claim 12 further comprised of the step of adding a flux to the Sterilite prior to heating in the crucible.

16. The method of claim 12 wherein the step of adding a flux is comprised of adding a small of amount of Borax and Boric Acid to the Sterilite alloy.